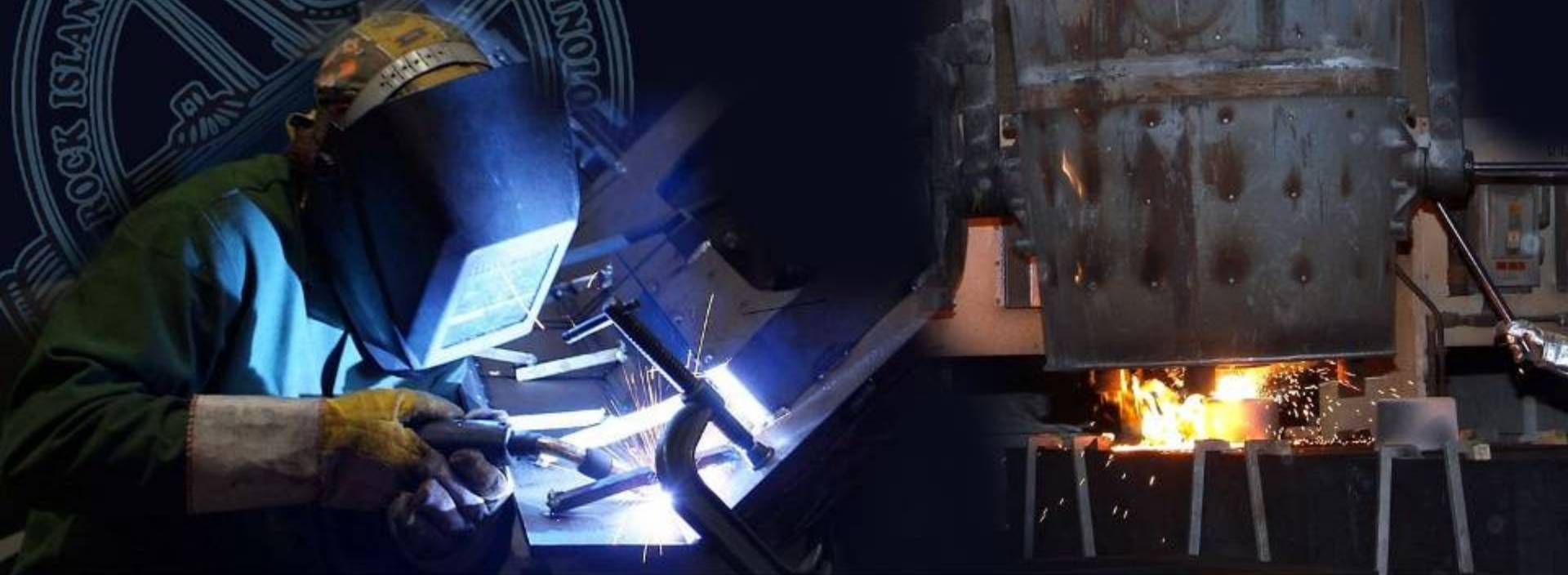


USA ROCK ISLAND ARSENAL

Joint Manufacturing & Technology Center

Success Stories



**Commander
J.B. Elliott**





ACOM

Joint Military Training Center

ISO 9001:2000
REGISTERED

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GOLD
PRIZE



Vision

Provider of Choice for the 21st Century War Fighter

Goals

- Transform RIA-JMTC to meet the needs of current and future combat systems
- Be Technologically Advanced, Value-Added, Fully Integrated and Responsive
- Pursue Internal and External Reform Initiatives to Remain Competitive
- Maintain and Advance a Diverse, Trained and Ready Workforce Enhance Communications to Keep



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Joint Military and Maritime Command



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Mission Statement

As rapidly as possible, provide our Nation's war fighters with the most cost efficient and effective (100% reliable) products and bring them home safely.

RIA-JMTC Core Capabilities

- We can do what the private sector can't (profitability)
- Surge Capability – 90+ local blanket purchase agreements
- Competitive Pricing (Honest Broker)
- Critical Parts – Sustainment of legacy systems
- Flexible Manufacturing – Adaptive organization focused



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Army Corps of Engineers



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RIA-JMTC Attributes

- The Army's only Shingo Gold Prize Award Winner for Excellence in Manufacturing 2006, Public Sector
- First Army Industrial Activity ISO 9001:2000 (Independently Registered 31 Dec 1995)
- LSS Program
- Only Vertically Integrated Metal Manufacturing Facility in DoD
 - In-house Integration of Engineering & Production
 - Critical Knowledge Base for Prototype, Production Engineering, Manufacturing & Testing
 - Rapid Response Machining Center
 - Original/Sole Producer of Weapons Systems Components
 - Future Focus Tied to Needs of the Warfighter





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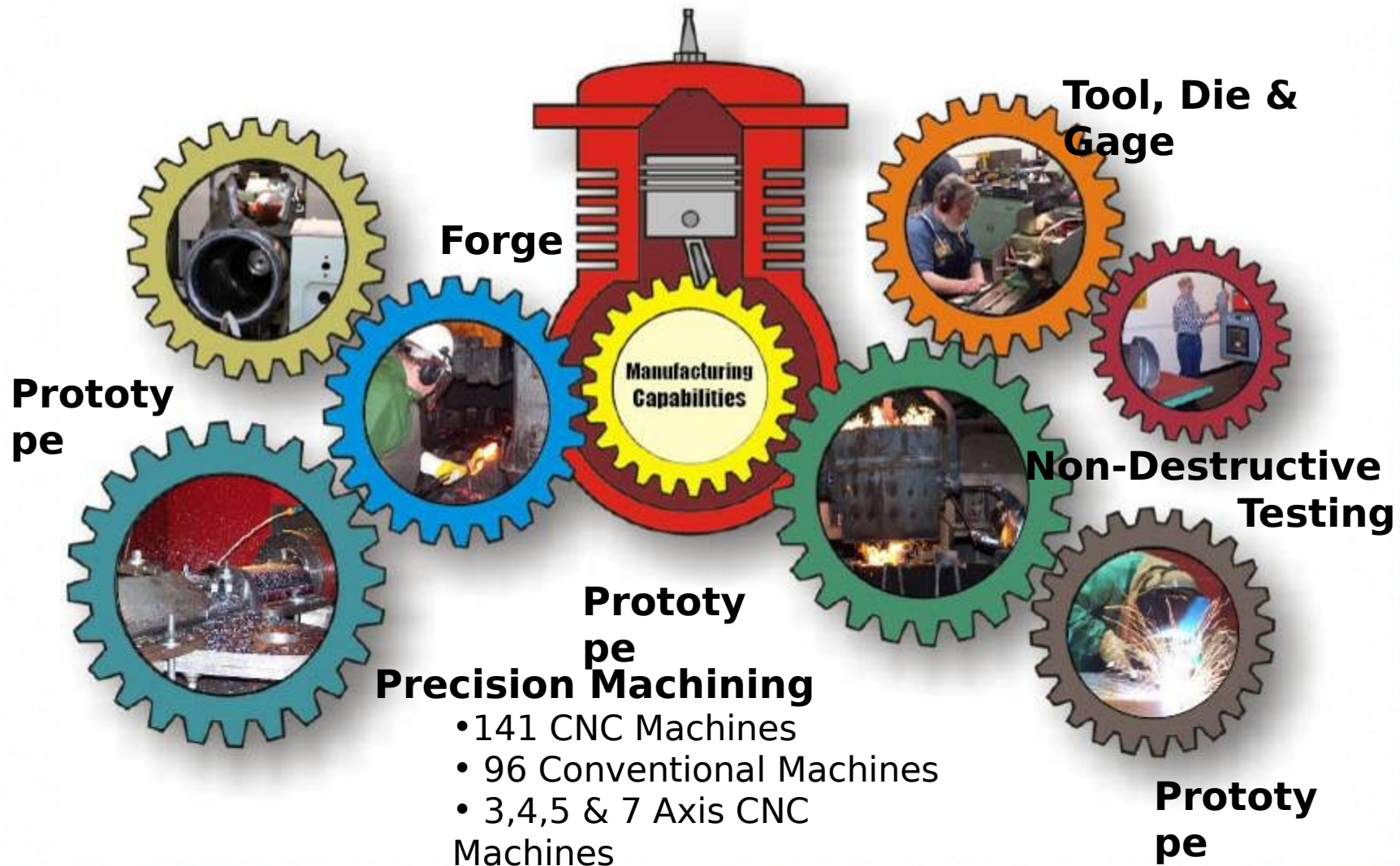
ASME Quality Management System

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Manufacturing & Service Capabilities





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Asset Management Solutions

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Manufacturing & Service Capabilities



**Assembly
Forge
Gears
Heat Treat
Investment Casting
Non-Destructive
Testing
Paint
Pattern Shop
Plating
Pliable Materials
RRMC
Springs**





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Asset Management Solutions

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Core Products



Shop Equipment
Contact Maintenance



M119 Towed
Howitzer



HMMWV + Frag 5 Kit +



Forward Repair System



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Fire & Emergency Management Services

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LEAN Initiative



BEFORE

AFTER

Successes/Accomplishments (Thru 1st Qtr FY06)

- Completed 167 LEAN RIE's
- 695 Employees Engaged on One + LEAN Events
- Facilitated Focus Factory for FRS & SECM
- Established Integrated Product Teams
- 51 Safety Issues Resolved
- 26 Ergonomic Issues Resolved



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Asset Management Solutions

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6S Events

Sort, Straighten, Scrub, Safety, Standardize, Sustain_
Machining Area

Before



During



After



Layout Area

Before



During



After





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ASD (Logistics) Management Contract

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Shop Equipment Contact Maintenance (SECM)

- Production Start - FY95
- User: US Army, USAR, USMC, NG, FMS, COE
- Base Vehicle - M1097 HMMWV, M1113 HMMWV

Mission: Repair Battle Damaged Equipment
"In Theater"



MODULARITY REQUIREMENT



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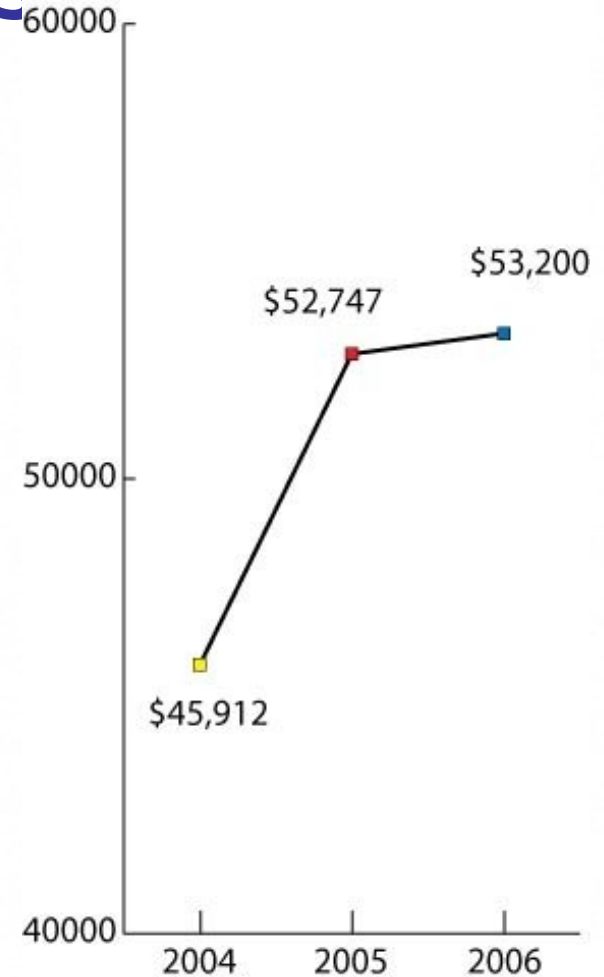
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Shop Equipment Contact Maintenance (SFCM)

- Hours per unit reduced - 285
- Flow days reduced to - 120
- Build rate 10 units/month - 40
- Safety & Ergo Issues resolved - 37
- 2 Value Stream Analysis
- 21 Rapid Improvement Events





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M7 Forward Repair System

- Designed and Built at RIA-JMTC from Performance Specification
- Produced/Tested 5 Systems
Dec 98 – Nov 99
- Roll Out Ceremony Aug 2000
- First Unit Equipped Oct 2000 – 4th
- Projected Orders thru FY10



MODULARITY REQUIREMENT



Mission:

Repair Battle Damaged Heavy Combat Systems
“In Theater” up thru the Direct Support Level



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MIE Value Management System

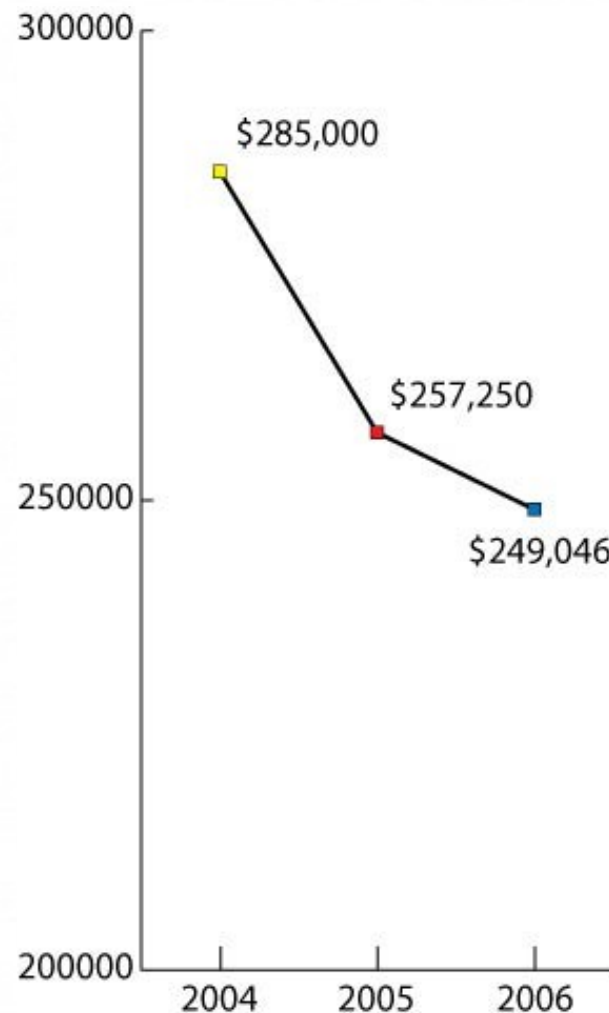
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M7 Forward Repair System

- Hours per unit reduced - 254
- Flow days reduced by - 146
- Travel distance reduced by 10 miles
- Floor space reduction in S.F. 11,009
- Personnel redeployment - 6
- Build rate 4 units/month - 25 units
- Forms/shop orders reduced - 9
- Safety/Ergo issues resolved - 40
- 3 VSA (Value Stream Analysis)
- 24 RIE (Rapid Improvements Events)
- 14 Projects





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Asset Management Solutions



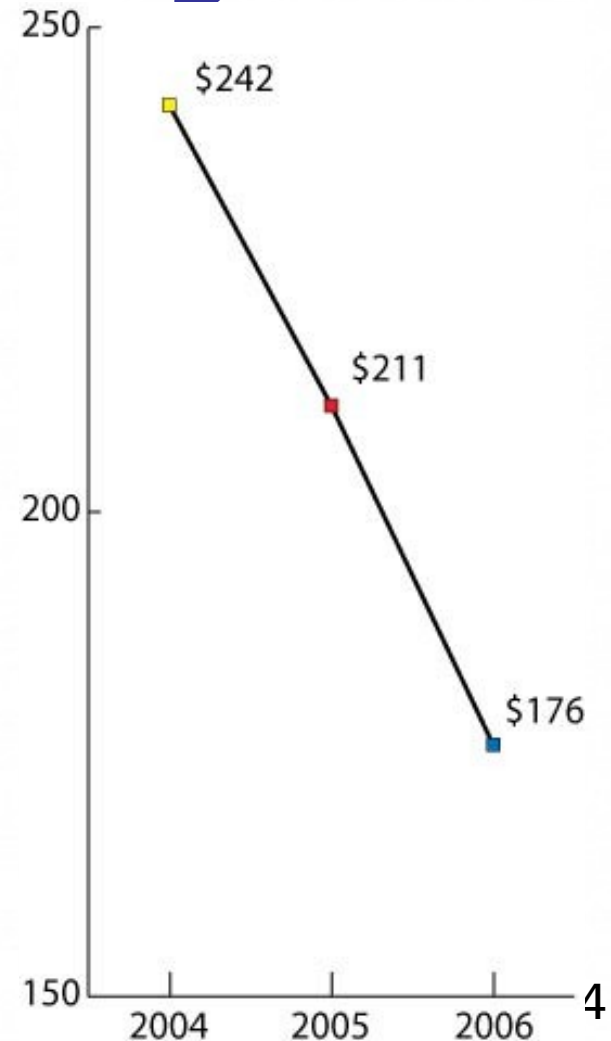
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Field Service Gages

- Accelerated M2 Headspace and Timing Gage Set to 4,200 per month
- Reduce travel time 70%
- Reduce WIP 85%
- Safety & Ergo Issue resolved - 14





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Air Force Materiel Command

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AOA Campaign

Frag 5 Interim Kit

- Direct Packing door from paint line
- Build rate 50 kits/day - 6300 kits
- Cost Avoidance of \$2.8 M/last order
- 2 Rapid Improvement Events
- 5 Safety & Ergo Issues Resolved



GPK

- Material movement reduced by 1949'
- Build rate 70 kits/day
- 4 Rapid Improvement Events
- 10 Safety & Ergo Issues resolved





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Active Management Contract

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AOA Campaign

- **HMMWV's**

- Initial Order Received 4 Nov 03
- 1st Kits Completed 19 Dec 03
- Total HMMWV AOA Kits produced - Over 3619
- Max Weekly Production Rate Attained in Apr 04 was 225 Kits/Week



- **Stryker**

- 1st Brigade Initial Order - 150 Kits
- Manufactured Between Nov 05 & Feb 06
- 2nd Brigade - Quantity 312
- Delivered Between Feb 06 & May 06



- **Frag 5 Interim Kit**

- On Site Effort with PM Engineer
- Produced First Prototype in 1 Week
- Scheduled to Complete Order of 5000 in Aug 06

- **GPK**

- Produced 3 Prototypes May 06
- Funded for Production of 310 Kits





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ARL V&E Management System

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M119 TOWED HOWITZER

- 2 VSA's
- 19 RIE Events
- 5 G/B & 2 B/B Projects
- \$16M Savings



- Build Rate 2 units/month to 6 units
- Flow days reduced by - 31
- Safety/Ergo issues resolved - 36
- Travel distance reduced by - 4.84 miles



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Artillery Command

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Artillery Systems Support



• Gun Mounts

- Original Equipment Manufacturer
- Spare and Repair Parts
- Upgrade Services
- Overhaul Part Support
- Replenishment
- FMS



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Air Force Materiel Command



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Focused on Future Combat Systems

- **Titanium Manufacturing**
- **Composite Manufacturing**
- **Public Private Partnerships**



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Joint Warfighter Management System

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It's all about the Joint Warfighter!

